U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
PCE Chestnut - Removal Polrep

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region VII

Subject: **POLREP #4**
Progress (property assessment, vapor mitigation bids, gw locates)
PCE Chestnut

Atlantic, IA
Latitude: 41.4036007 Longitude: -95.0138776

To:
From: Susan Fisher, OSC
Date: 9/10/2015
Reporting Period: 9/8/2015 to 9/9/2015

1. Introduction

1.1 Background

Site Number:	A7B4	**Contract Number:**	
D.O. Number:		**Action Memo Date:**	5/18/2015
Response Authority:	CERCLA	**Response Type:**	Time-Critical
Response Lead:	EPA	**Incident Category:**	Removal Action
NPL Status:	Non NPL	**Operable Unit:**	
Mobilization Date:	6/4/2015	**Start Date:**	6/4/2015
Demob Date:		**Completion Date:**	
CERCLIS ID:	IAN000703467	**RCRIS ID:**	
ERNS No.:		**State Notification:**	
FPN#:		**Reimbursable Account #:**	

1.1.1 Incident Category

Inactive Production Facility

2. Current Activities

2.1 Operations Section

2.0 Current Activities

2.1 Operations

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2.1.1 Narrative

During a vapor intrusion assessment conducted in March 2015 by the EPA for the PCE Former Dry Cleaners Site, the EPA discovered another former dry cleaner site (PCE Chestnut Street) to the west of the

PCE Former Dry Cleaners Site. The levels of PCE vapors found in buildings at the Site present a significant health threat due to inhalation hazards.

2.1.1.1 Current situation

Vapor intrusion sampling was conducted the weeks of July 13 and 20, 2015. The results of the sampling showed two properties with TCE vapors in the inside air higher than the TCE vapors in the subslab.

2.1.2 Response activities to date

On September 8 and 9, 2015, the EPA conducted an assessment of the two properties, with TCE vapors inside the property higher than the TCE vapors in the subslab.

500 Chestnut

The main floor of the building was a dry cleaning operation. The following materials were found in the building:

- Two 15-gallon poly drums labeled “Builder C NP”, a liquid with pH of 13 to 14. This product was labeled corrosive. Also noted were solid crystals forming on top of the container and falling to the floor of the building.
- One half full 50-lb bag of white solid powder labeled Tri Kovar Alkali (an ingredient is sodium hydroxide) with a pH of 13.
- A large drycleaning machine containing 21 gallons of amber liquid in the east tank and 13 gallons of clear liquid in the west tank (both reported to be PCE containing).
- A basement room had ~30 to 40 small containers, some labeled, some not. They contained spot cleaners and other drycleaning-related chemicals. One container was labeled “Picrin”, which is TCE.

Other drycleaning chemicals, detergents, etc., remain inside the building.

PCE, TCE and materials with a pH above 12.5 are listed hazardous substances as defined in 40 CFR 261.1; therefore the EPA will be conducting a removal of the chemicals under an Action Memorandum with an Emergency Exemption. The Emergency Exemption will be used because of the immediate risk to public health or welfare or the environment.

13 East 4th Street

The property at 13 East 4th Street consists of three businesses on the main floor over a basement. Above the businesses are apartments that are not currently occupied. The businesses are a shoe cobbler, a barber shop, and a sign shop.

The basement has several open and closed containers of paint, varnishes and strippers from the sign company. No specific container was found with TCE as a listed ingredient. However, several containers were rusty and there were several boards and other debris hampering the ability to find all containers.

The Agency for Toxic Substances and Disease Registry (ATSDR) *Toxicological Profile for Trichloroethylene (Update),* U.S. Public Health Service, U.S. Department of Health and Human Services, Atlanta, GA 1997 states:

"Trichloroethylene is used in consumer products such as typewriter correction fluids, paint removers/strippers, adhesives, spot removers, and rug-cleaning fluids".

Therefore, the EPA will be requesting that the owner remove all containers from the basement that are no longer used. Then retesting of the indoor air will be done to determine if there is still TCE in the indoor air

that exceeds EPA Removal Action Levels.

The EPA and START located areas where groundwater sampling will be conducted in October 2015.

The EPA also met with ERRS contractor. The ERRS contractor put out for bid four properties to install vapor mitigation systems. Three potential bidders met and conducted a walk-through of the four properties.

2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

PRPs have not been identified.

2.1.4 Progress Metrics

See the Documents section for a table of the progress metrics.

2.2 Planning Section

2.2 Planning

2.2.1 Anticipated activities for next reporting period

The EPA OSC is planning to conduct oversight of the installation of vapor mitigation systems in four properties. The EPA will be conducting a removal action at 500 Chestnut.

2.2.1.1 Planned Response Activities

The EPA will be collecting groundwater sampling the first week of October 2015. Groundwater sample results will be used to delineate the groundwater plume and to help locate source areas.

2.2.1.2 Next Steps

Continue to delineate groundwater plume and locate source areas, as well as collect additional vapor intrusion samples.

2.2.1.2 Issues

No issues at this time.

2.3 Logistics Section

No information at this time.

2.4 Finance Section

2.4 Finance

2.4.1 Narrative

“The accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.”

2.4.2 Metrics

Below is a table of costs as appropriate for the specific response. Costs could be tracked against Removal Ceiling, daily burn rate, etc.

Estimated Costs *

		Total To		%

	Budgeted	Date	Remaining	Remaining
Extramural Costs				
ERRS - Cleanup Contractor	$33,563.00	$18,950.00	$14,613.00	43.54%
TAT/START	$58,872.00	$2,000.00	$56,872.00	96.60%
Intramural Costs				
USEPA - Direct	$45,456.00	$4,000.00	$41,456.00	91.20%
USEPA - InDirect	$143,327.00	$10,475.00	$132,852.00	92.69%
Total Site Costs	$281,218.00	$35,425.00	$245,793.00	87.40%

* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

2.5 Other Command Staff

No Information at this time.

3. Participating Entities

3.0 Participating Entities

3.1 Unified Command

U.S. Environmental Protection Agency

3.2 Cooperating and Assisting Agencies

Iowa Department of Natural Resources
City of Atlantic, Iowa

4. Personnel On Site

4.0 Personnel On Site and Off Site

EPA Employees
START
ERRs

5. Definition of Terms

5.0 Definition of Terms

µg/m3 - Micrograms per cubic meter
PRP - Potential Responsible Party
ND - Non Detect
SS - Subslab
IA - Indoor Air
PCE - Tetrachloroethene
TCE - Trichloroethene
APA - Abreviated Preliminary Assessment

OSC - On Scene Coordinator
ATSDR - Agency for Toxic Substance Disease Registry
IDNR – Iowa Department of Natural Resources

6. Additional sources of information

6.0 Source of Additional Information

PCE (Tetrachloroethylene):

- A man-made chemical that is widely used for dry cleaning clothes
- It evaporates easily into the air
- A colorless liquid with a mild, chloroform-like odor - has a sharp, sweet odor.

TCE (Trichloroethylene):

- Remove grease from fabricated metal parts and in the production of some textiles.
- PCE degrades to TCE under certain circumstances
- A colorless or blue liquid with a chloroform-like odor - has a sharp, sweet odor.

For more information about these chemicals go to:
http://water.epa.gov/drink/contaminants/basicinformation

7. Situational Reference Materials

7.0 Situational Reference Material